

93120

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. Patent Application)
Applicant: Tetsuhiro IIDA et al.)
Serial No.: To Be Assigned)
Filed: Herewith)
For: METHOD FOR PRODUCING SINGLE CRYSTAL)
SILICON, METHOD FOR PRODUCING SINGLE)
CRYSTAL SILICON WAFER, SEED CRYSTAL FOR)
PRODUCING SINGLE CRYSTAL SILICON, SINGLE)
CRYSTAL SILICON INGOT, AND SINGLE CRYSTAL)
SILICON WAFER)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313

Sir:

Pursuant to 37 C.F.R. §1.97, a list of documents is disclosed on the attached Form PTO-1449 that may be material to the examination of this application. The cited references are enclosed herewith.

Documents for which the supplied date of publication lists the year of publication without the month were published sufficiently earlier than the effective U.S. filing date and any foreign priority date, so that the particular month of publication is not in issue. Pursuant to §609 of the MPEP, it is understood that the month of publication is not required when the particular month of publication is not in issue.

No inferences should be drawn that the attached list represents a comprehensive investigation, or that any material disclosed is equivalent to the subject invention. In addition, none of the documents that have publication dates prior to the priority date of the above application anticipate the invention in this application.

Atty. Docket No.: 93120

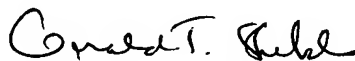
Applicant also encloses a copy of the PCT Search Report and cited references therein.

The cited document(s) disclose numerous specific features. There has been no attempt to list each and every feature disclosed by each document. The Examiner is requested to review the document(s) and determine the extent of the materiality of the document disclosures with respect to the present invention.

The discussion of any art and the citation of any document(s) herein is not to be construed as an admission that the art or document disclosure is necessarily within the invention field of endeavor, that the art or document disclosure is necessarily prior in time to a particular date which may be relevant to the instant patent application, and/or that the art or document disclosure is otherwise necessarily prior art as defined by the patent law with respect to the instant invention and application.

Also, there is reserved the right to later set forth how the instant invention is distinguished over the disclosure of any document or other art, including the disclosures of the art and document(s) recited herein, that may be cited by the Examiner in rejecting a claim in the instant patent application. The recitation herein of the art and document(s) is not to be construed as an assertion that more pertinent art could not possibly be in existence.

Respectfully submitted,



Gerald T. Shekleton
Registration No. 27,466

Dated: October 19, 2004

WELSH & KATZ, LTD.

120 South Riverside Plaza
22nd Floor
Chicago, Illinois 60606
Telephone: 312-655-1500

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Unassigned 10/512022
		Filing Date	October 19, 2004
		First Named Inventor	Tetsuhiro et al.
		Art Unit	Unassigned
		Examiner Name	Unassigned
Sheet 1 of 1	Attorney Docket Number	93120	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		4,002,523	01/11/1977	Dyer	
		5,911,823	06/15/1999	Sonoda et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		JP 63123893	05/27/1988	Shoichi et al.		Abstract
		JP 03080184	04/04/1991	NEC Corporation		Abstract
		JP 57-017494	01/29/1982	Toshiba Corporation		Abstract
		JP 09-165298	06/24/1997	Koji et al.		Abstract

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
		Murthy et al.; "Growth of Dislocation-Free Silicon Crystals in the (110) Direction for Use as Neutron Monochromators," <i>Journal of Crystal Growth</i> , Vol. 52, (1981), pp. 391-395.	
		Hoshikawa et al.; "Dislocation-Free Czochralski Silicon Crystal Growth without the Dislocation-Elimination-Necking Process," <i>Japan Journal of Applied Phys.</i> , Vol. 38 (1999) pp. L1369-L1371.	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.